

The listing of claims will replace all prior versions, and listings, of claims in the application. The original claims 24-36 are amended herein and new claims 37-40 are added.

**Listing of Claims:**

Cancel claims 1-23.

24. (original) A calcium fluoride crystal producing graphite crucible for making a calcium fluoride crystal with increased far-ultraviolet transmission, said graphite crucible comprised of a graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $4 \text{ cm}^2/\text{s}$ .

25. (Amended) The A calcium fluoride crystal producing graphite crucible according to ~~for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~ in claim 24, said graphite having a Hg porosity of at least 16.7%.

26. (Amended) The A calcium fluoride crystal producing graphite crucible according to ~~for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~ in claim 24, said graphite having a Hg porosity of at least 20%.

27. (Amended) The A calcium fluoride crystal producing graphite crucible according to ~~for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~ in claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $5 \text{ cm}^2/\text{s}$ .

28. (Amended) The A calcium fluoride crystal producing graphite crucible according to ~~for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~ in claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $6 \text{ cm}^2/\text{s}$ .

29. (Amended) The A calcium fluoride crystal producing graphite crucible according to ~~for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~ in claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $7 \text{ cm}^2/\text{s}$ .

30. (Amended) The A calcium fluoride crystal producing graphite crucible according  
~~to for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~  
in claim 24, said graphite having a permeability of which, measured according to the DIN  
51935 Standard, is greater than 8 cm<sup>2</sup>/s.

31. (Amended) The A calcium fluoride crystal producing graphite crucible according  
~~to for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~  
in claim 24, said graphite having a permeability of which, measured according to the DIN  
51935 Standard, is greater than 9 cm<sup>2</sup>/s.

32. (Amended) The A calcium fluoride crystal producing graphite crucible according  
~~to for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~  
in claim 24, said graphite having a permeability of which, measured according to the DIN  
51935 Standard, is greater than 10 cm<sup>2</sup>/s.

33. (Amended) The A calcium fluoride crystal producing graphite crucible according  
~~to for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~  
in claim 24, said graphite having a permeability of which, measured according to the DIN  
51935 Standard, is greater than 11 cm<sup>2</sup>/s.

34. (Amended) The A calcium fluoride crystal producing graphite crucible according  
~~to for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~  
in claim 24, said graphite having a permeability of which, measured according to the DIN  
51935 Standard, is greater than 12 cm<sup>2</sup>/s.

35. (Amended) The A calcium fluoride crystal producing graphite crucible according  
~~to for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~  
in claim 24, said graphite having a permeability of which, measured according to the DIN  
51935 Standard, is greater than 13 cm<sup>2</sup>/s.

36. (Amended) The A calcium fluoride crystal producing graphite crucible f according  
~~to for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~

in claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $14 \text{ cm}^2/\text{s}$ .

37. (New) A graphite crucible suitable for growing monocrystals of alkali and alkaline earth metal fluorides, said crucible being comprised of a graphite having a permeability greater than  $4 \text{ cm}^2/\text{s}$  when measured according to DIN Standard 51935

38. (New) The graphite crucible according to claim 37, wherein the graphite has a permeability greater than  $10 \text{ cm}^2/\text{s}$  when measured according to DIN Standard 51935.

39. (New) The graphite crucible according to claim 37, wherein the graphite has a permeability is greater than  $14 \text{ cm}^2/\text{s}$  when measured according to DIN Standard 51935.

40. (New) The graphite crucible according to claim 37, wherein the graphite has a Hg porosity of at least 16.7%.